

EC Type Examination Certificate Notified Body 0729

This is to certify that ABS Europe Ltd., as a Notified Body under the authorization of UK MCA by Merchant Shipping Regulations 2016, S.I. 2016 Number 1025 and MSN 1874 (M+F), as amended, did undertake the relevant type approval procedures for the equipment identified below and same was found to be in compliance with the provisions of these Regulations and EU Marine Equipment Directive 2014/90/EU of 18th September 2016.

ITEM NUMBER:

MED/3.51(c), (d), (e), (f), (g), (h)

IMPLEMENTING REGULATIONS

(EU) 2018/773

CERTIFICATE NUMBER

11-LD792467-5-EC

APPLICANT:

Apollo Fire Detectors Ltd

APPLICANT'S LOCATION:

Hampshire, UK

PORT OFFICE:

Southampton, UK

PRODUCT DESIGNATION:

Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces

Heat Detectors MED/3.51(c); Smoke Detectors MED/3.51(d); Flame Detectors MED/3.51(e); MCPs MED/3.51(f); Isolators MED/3.51(g); I/O Devices MED/3.51(h);

STANDARDS AND REGULATIONS:

SOLAS 74 Reg. II-2/7; SOLAS 74 Reg. X/3; IMO Res. MSC.98(73)-(FSS Code)9;

IMO Res.MSC.36(63)-(1994 HSC Code) 7; IMO Res.MSC.97(73)-(2000 HSC Code) 7; IMO Res. MSC.391(95)-(IGF Code) 11, IMO MSC.1/Circ.1242;

EN 54-5:2000 inc. A1(2002), EN 54-5:2017, EN 54-7:2000 inc. A1(2002) & A2(2006), EN 54-10:2002 inc. A1(2005), EN 54-11:2001 inc. A1(2005); EN 54-17:2005 inc. AC:2007;

EN 54-18 (2005) including AC(2007); IEC 60092-504 (2016), IEC 60533 (2015)

THIS CERTIFICATE IS ISSUED IN COMPLIANCE WITH CONFORMITY ASSESSMENT MODULE B OF THE REGULATIONS AND DIRECTIVES LISTED ABOVE.

ISSUE DATE: 30 August 2019

EXPIRATION DATE: 31 August 2022

SIGNATURE: N. Tyagi

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

This "Mark of Conformity" may only be affixed to the above equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase Module (D, E or F) of Annex II of the Directive is fully complied with and controlled by a written agreement with a Notified Body.

The attached document list forms part of this Certificate.

This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. ABS Europe Ltd. is a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 2016, No. 1025 and MSN 1874 (M+F), as amended. Compliance with the provisions laid down in EU Directive 2014/90/EU, will be determined as governed by the terms and conditions as contained in EU MED application form – CLS-JBA-00131.



Certificate No.:

11-LD792467-5-EC

Entry Date:

30 August 2019

Name of Equipment/
Component Manufacturer:

Apollo Fire Detectors Ltd. 36 Brookside Road Havant, Hampshire England PO9 1JR

Tel:

+44-2392-492-412

chris.ellis@apollo-fire.com

Email: Website:

www.apollo-fire.co.uk

Equipment/Component:

Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces

- Heat Detectors, MED/3.51(c);
- Smoke Detectors, MED/3.51(d);
- Flame Detectors MED/3.51(e);
- Manual Call Points MED/3.51 (f);
- Short Circuit Isolators MED/3.51(g);
- Input/Output Devices MED/3.51(h);

Model:

Apollo Analogue Addressable Range of Flame/Smoke/Heat Detectors, Manual Call Points and Accessories, XP95 Analogue Addressable Intrinsically Safe Range of Smoke/Heat Detectors, Manual Call Points.

Description:

Analogue addressable detectors, call points and accessories 45681-286MAR 20D Negative Isolating Base 55000-027MAR UV Flame Detector 55000-028MAR UV/IR2 Flame Detector 55000-029MAR IR3 Flame Detector 55000-034MAR IR3 Flame Detector 55000-721MAR 20D Negative Isolator 55000-770MAR DIN Rail Dual Isolator 55000-771MAR DIN Rail Output Unit 55000-772MAR DIN Rail Switch Monitor Plus 55000-772MAR DIN Rail Switch Monitor Plus

55000-774MAR DIN Rail Input/Output Unit 55000-775MAR DIN Rail Mini Switch Monitor

55000-775MAR DIN Rail Mini Switch Monitor
55000-855MAR DIN Rail Single Channel Protocol Translator

55000-856MAR DIN Rail Dual Channel Protocol Translator

58000-400MAR Heat Detector

58000-500MAR Ionisation Smoke Detector 58000-600MAR Optical Smoke Detector 58000-700MAR Multisensor Smoke Detector

58100-970MAR Red Manual Call Point

58100-971MAR Red Manual Call Point with Isolator 58100-975MAR Waterproof Manual Call Point

58100-976MAR Waterproof Manual Call Point with Isolator

45681-215 Standard Base

55000-440 Class A2S Heat Detector 55000-540 Ionisation Smoke Detector 55000-640 Optical Smoke Detector 55100-940 Red Manual Call Point

Intended Service:

Analogue addressable fire detection system detectors, call points and accessories for marine and offshore applications in process, machinery and accommodation spaces.

Ratings:

Apollo Analogue Addressable Range of Flame/Smoke/Heat
Detectors, Manual Call Points and Accessories
Nominal voltage 17 to 28V DC
Operating temperature -20C to 60C, -30C to 70C or -40C to 70C
dependent on model
Quiescent current 100 microA to 400microA dependent on
model

Apollo XP95 Analogue Addressable Intrinsically Safe Range of Smoke/Heat Detectors, Manual Call Points

Nominal voltage: 14 to 22V DC; Operating temperature:-20C to 60C;

Quiescent Current: 230microA to 340microA, Alarm Current: 10

to 60 mA;

Standards:

European Union Marine Equipment Directive 2014/90/EU referencing testing requirement of implementing regulations (EU) 2018/773

IMO Res.MSC.36(63)-(1994 HSC Code) 7; IMO Res.MSC.97(73)-(2000 HSC Code) 7; IMO Res.MSC.98(73)-(FSS Code) 9; IMO Res.MSC.391(95)-(IGF Code) 11; IMO MSC.1/Circ.1242; SOLAS 74 Reg. II-2/7; SOLAS 74 Reg. X/3 IEC 60092-504:2016; IEC 60533:2015; EN 54-5 (2000) including A1(2002), EN 54-5 (2017); EN 54-7 (2000) including A1(2002) & A2 (2006); EN 54-10 (2002) including A1(2005); EN 54-17 (2005) including A2 (2007); EN 54-18 (2005) including AC(2007);

Service Restrictions/Limitations:

Ex-certification is not covered by this certificate. Application or installation in hazardous area to be approved in each case according to Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be reapproved prior to being placed on board vessels to which the amended regulations or standards apply.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the Notified Body named on this certificate.

The "Mark of Conformity" shall be affixed to the above equipment in line with the requirements of Directive 2014/90/EU Articles 9 & 10.

A Manufacturer's Declaration of Conformity shall be compiled and distributed in line with the requirements of Directive 2014/90/EU Article 16.

Comments:

Drawing Schedule:

| Drawing No | Description - It is a second of the latest and the |
|-----------------------|---|
| 16-LD1536864-PDA | PRODUCT DESIGN ASSESSMENT |
| 43781-263 | XP95 INTRINSICALLY SAFE MANUAL CALL POINT PCB ASSEMBLY |
| 45681-215 | XP95 INTRINSICALLY SAFE MOUNTING BASE ASSY |
| 55000-640 | XP95 INSTRICALLY SAFE OPTICAL SMOKE DETECTOR GENERAL ASSEMBLY |
| 43781-243 | XP95 INTINSICALLY SAFE IONISATION SMOKE DETECTOR PCB ASSEMBLY |
| 43781-245 | XP95 INSTRINSICALLY SAFE HEAT DETCTOR PCB ASSEMBLY |
| 43781-237 | XP95 INTRINSICALLY SAFE OPTICAL SMOKE DETECTOR PCB ASSEMBLY |
| 45681-211 | XP95 ISOLATOR BASE ASSEMBLY |
| 55000-02 8 MAR | INTELLIGENT BASE MOUNTED UVIR2 FLAME DETECTOR (MARINE) |
| 55000-027MAR | INTELLIGENT BASE MOUNTED UV FLAME DETECTOR (MARINE) |
| 43781-547 | XP95 , NEGATIVE ISOLATOR , PCB ASSEMBLY |
| TE 238037 | TECHNICAL EVAULATION OF THE MODIFIED APPOLLO FIRE DETECTORS LTD |
| TE245407 | TECHNICAL EVALUTATION OF MODEL 45681-393 APO |
| TE 252733 | TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD |
| TE 222766 | TECHNICAL EVALUATION OF THE APPOLLO FIRE DETECTORS LIMITED |
| 43781-964 | XP95/DISCOVERY EN54 MCP PCB ASSEMBLY |
| TE 237126 | TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD |
| TE 245499 | TECHNICAL EVAULUTION OF THE APOLLO FIRE DETECTORS LTD |
| TE 237154 | TECHNICAL EVALUATION OF THE APOLLO 55000 -760 ANALOGUE ADDRESSABLE MINI SWITCH MONITOR |
| TE 223930 | TESTING OF THE APOLLO XP995 I.S. |
| TE 260875 | TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD |
| TE292207 | BRE GLOBAL TEST REPORT |
| 43781-271 | ISOLATING BASE PCB ASSEMBLY |
| TE 90089 | TEST REPORT |
| TE 90090 | TEST REPORT |
| TE 236936 | TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD |
| TE 234979 | TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD |
| TE 231156 | TECHNICAL EVALUATION OF THE APOLLO FIRE DETECTORS LTD |
| 43781-291 | DIN RAIL INPUT /OUTPUT UNIT PCB ASSEMBLY |
| 43781-700 | DISCOVERY IONISATION SMOKE DETECTOR PCB ASSEMBLY |
| 43781-900 | DISCOVERY, TEXAS CHIP, MULTISENSOR SMOKE DETECTOR, PCB ASSEMBLY |

| 43781-292 | DIN RAIL OUTPUT UNIT PCB ASSEMBLY |
|---|--|
| 43781-293 | XP95 DIN RAIL SWITCH MONITOR PLUS PCB ASSEMBLY |
| 43781-296 | XP95 DIN RAIL ZONE MONITOR UNIT PCB ASSEMBLY |
| 45681-393CD SHT 1 | DISCOVERY, ISOLATED SOUNDER BEACON BASE SCHEMATIC DIAGRAM |
| 45681-393CD SHT 1 | DISCOVERY , ISOLATED SOUNDER BEACON BASE SCHEMATIC DIAGRAM |
| 45681-393 | DISCOVERY SOUNDER BEACON BASE WITH ISOLATOR, GENERAL ASSEBMLY, STANDARD TONE |
| 55000-181CD | MARINE SOUNDER CIRCUIT CONTROLLER CIRCUIT DIAGRAM |
| 55000-029MAR | INTELLIGENT BASE MOUNTED IR3 FLAME DETECTOR (MARINE) |
| 43781-968 | DISCOVERY SOUNDER BEACON BASE, WITH ISLOATOR, PCB ASSEMBLY |
| 43781-982 | DIN RAIL MARINE SOUNDER CONTROL UNIT PCB ASSMEBLY |
| 43781-306 | XP95 DIN RAIL DUAL ISOLATOR PCB ASSEMBLY |
| 55000-812CD | XP95 DIN RAIL ZONE MONITOR UNIT CIRCUIT DIAGRAM |
| 55000-812CD | XP95 DIN RAIL ZONE MONITOR UNIT CIRCUIT DIAGRAM |
| 55000-804CD | DIN RAIL OUTPUT UNIT SCHEMATIC DIAGRAM |
| 55000-802CD | DIN RAIL DUAL ISOLATOR CIRCUIT DIAGRAM |
| 55000-803CD | DIN RAIL I/O UNIT CIRCUIT DIAGRAM |
| 55000-821CD | XP95 DIN RAIL SWITCH MONITOR PLUS CIRCUIT DIAGRAM |
| 45681-210 | LLOYDS-AUDIT 2014 |
| 45681-394 MAR | LLOYDS AUDIT 2014 |
| 55000-027 MAR | TEST REPORT |
| 55000-775 MAR | LLOYDS AUDIT 2014 |
| 45681-286 MAR | LLOYDS AUDIT 2014 |
| 55000-028 MAR | TEST REPORT |
| 45681-210 Lloyds Audit 2014 - | TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID - |
| final | 45681-210 |
| 45681-394 Lloyds Audit 2014 - | TESTED TO LLOYD'S REGISTER TYPE APPROVAL TEST PRODUCT ID |
| final | 45681-394 MAR |
| 55000-028 Test Report | TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID 55000-028 MAR |
| 55000-027 Test Report | TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID 55000-027 MAR |
| 45681-286 Lloyds Audit 2014 - | TESTED TO LLOYDS REGISTER TYPE APPROVAL TEST PRODUCT ID |
| final | 45681-286 MAR |
| SOU 1600611/1 | INSULATION RESISTANCE TEST WITNESS |
| TEST REPORT INSULATION RESISTANCE TESTING | TEST REPORT |

| TEST REPORT INSULATION RESISTANCE TESTING | TEST REPORT |
|---|---|
| GB-BAS-ExTR12-0292-00_XP95IS Fire Monitors | GB-BAS-ExTR12-0292-00_XP95IS Fire Monitors |
| IECEx-BAS-12-0091X_3 - XP95 IS Range | IECEx-BAS-12-0091X_3 - XP95 IS Range |
| GB-BAS-ExTR15 | GB-BAS-ExTR15 |
| GB-BAS-ExTR13.0293-00 | GB-BAS-ExTR13.0293-00 |
| Test Report- GB-BAS-ExTR13,0090-00 | Test Report- GB-BAS-ExTR13.0090-00 |
| IR test LSR3570 witnessed | IR test- LSR3570 witnessed |
| TL18048 | APOLLO FIRE SYSTEM B TEST REPORT |
| TL18049 | APOLLO FIRE REPORT PHASE 2 SYSTEM A |
| TL18050 | APOLLO FIRE REPORT PHASE 3 SYSTEM A |
| TL18049 | APOLLO FIRE REPORT PHASE 2 SYSTEM B |
| 18 R110 ER | TEST REPORT EUROFINS HURSLEY LTD, DATED 26 MAR 2018 |
| 1041 IR | TEST REPORT EUROFINS HURSLEY LTD. DATED 12 APR 2019 |
| 1278 CR | TEST REPORT FROM EUROFINS HURSLEY |

